


THIRD PARTY QUALITY ASSURANCE REPORT

PROJECT: LIBBY ASBESTOS PROJECT

THIRD PARTY INDEPENDENT CONTRACTOR: CDM FEDERAL PROGRAMS CORP.

REMOVAL CONTRACTOR: Kennedy Jenks Consultants

RESPONSE GUIDANCE DOCUMENT: OU6 Confirmation Surface Soil Sampling QAPP Rev. 1

REPORT AUTHOR:	K. Beaudoin (CDM Smith)	DATE: 9/6/2016
PROPERTY ADDRESS:	BNSF Libby Railyard (OU6)	Libby, MT 59923
GEO UNIT:	7749	
PROPERTY ID:	AD-000739	
WEATHER:	51 Deg F. Overcast. Light Rain.	
PURPOSE OF REPORT:	OU6 Soil Sampling Oversight of Kennedy Jenks Consultants (KJC)	
COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES		
<small>NOTE TIMES WITH EACH COMMENT (RESULTS OF QA INSPECTIONS TESTS DEFICIENCIES OBSERVED ACTIONS TAKEN CORRECTIVE ACTIONS TAKEN BY THE CONTRACTOR DISAGREEMENTS WITH CONTRACTOR VERBAL INSTRUCTIONS TO CONTRACTOR (INCLUDE PERSONNEL) DIRECTIONS FROM GOVERNMENT PERSONNEL)</small>		
<p>0920 KJC sampling team (J. Knight, K. Kohl, D. Rauch, L. Knickrehm and K. Doble) arrived at the CDM Smith office to receive visible vermiculite observation and data sheet training. KJC replaced a box of air cassettes (lot 43401) that CDM Smith had provided the team earlier in the sampling event. 1015 The KJC team left the office and headed to the field to set up for the sampling event. 1116 On site near Mile Post (MP) 1306. T. Drake (BNSF) on site for track protection. The teams will be starting near 1306 and will be sampling west towards Libby. 1201 The teams starting sampling the first 1000' segment of the day. There are 2 2-person sampling teams. One team is sampling on the north side of the track and one team is sampling on the south side of the track. Each team is collecting 15 aliquots per side of the 1000' sample area. The teams are staggering their samples from the toe of the ballast, center of the area, and outer edge of the BNSF property. The samples are being collected in ~66' intervals. K. Beaudoin observed team 1 on the south side of the tracks. Team 1 was collecting sample points from 0-6" bgs where possible (the area is rocky). The team was visually inspecting the soil from each aliquot. 1217 Y. Chuang (BNSF) on site. 1301 Team 1 collected their 15 aliquots of soil from the south section of the tracks. 1308 Team 2 has collected their aliquots and are combining the soil into a single bag and then homogenizing the soil. The bags are labeled with their sample ID. The teams deconned their sampling equipment withalconox and DI water. Gloves are being changed out and disposed of as IDW. 1320 The teams started the second sample. Both teams are on the south side of the tracks due to the Fisher River's proximity on the north side of the tracks. K. Beaudoin observed Team 2 as they collected sample points. Team 2 is collecting soil from 0-6" bgs where possible. Team 2 is visually inspecting the soil at each sample point. Team 2 is sampling in 66' intervals and is sampling along the toe of the ballast, center of the area and outer edge of the property. 1409 Team 2 collected 15 aliquots. 1415 The soil from both teams were combined into a single bag and homogenized. The bags are labeled with their sample ID. Their sampling equipment was deconned and their PPE was changed out. KJC is collecting a GPS point at each sample aliquot. 1423 The teams started on their 3rd sample. The teams continue to sample on the south side of the tracks due to the river on the north side of the tracks. 1458 The sample has been collected and combined into a single labeled sample bag. 1500 The teams took a break to each lunch. 1521 The teams are setting up to collect a 4th sample. 1530 The teams continued to sample the south side of the tracks on the 4th 1000' segment. 1557 Team 2 moved to the north side of the tracks and continued to collect samples. 1622 The samples have been collected and the teams combined and homogenized the soil. 1630 The teams started their 5th sample. 1719 The teams have collected their aliquots from the north and south side of the tracks and combined the sample into a single labeled bag. 1748 The teams moved a staging area and are completing the FSDS sheets for the samples. the teams were keeping a logbook of their activities. 1817 K. Beaudoin observed the teams transfer the homogenized soil from sample BG-00079 into a final sample bag. The sample bag and the bag the material is in has the same label. The sample bag was placed under custody. PPE was changed out between soil sample transfers. Excess soil is being disposed of as IDW. The team does not have sample labels for BG-00081 through BG-00083. The team will wait to transfer the soil into a final sample bag and complete the FSDS sheet after they obtain the sample ID's. The teams are cleaning up and preparing to depart the site. No visible vermiculite was observed during today's sampling event. 1835 Off site. 1954 K. Beaudoin informed K. Doble that the sample ID's that were missing as mentioned above had been assigned to the prep lab and that KJC would need to provide those three samples with sample ID's.</p>		
PRINTED NAME	INSPECTOR'S SIGNATURE	DATE
K. Beaudoin (CDM Smith)		9/6/2016


Photographic Log			Project: Libby OU6 BNSF Investigation Oversight	Project Number: 102220
Photo No. 1	Date: 9-6-16	Time: 1210		
Direction: Southeast				
Description: Sample Team 1 visually inspecting the soil on the south side of the tracks before adding material into sample bag.				

Photo No. 2	Date: 9-6-16	Time: 1309
Direction: East		
Description: Sample Teams 1 and 2 combining their 15 aliquots into a single sample bag to be homogenized.		



A photograph showing three workers in orange safety vests and red hard hats in a grassy field. One worker is holding a white plastic bag, and another is using a shovel to dig into the ground. A white bucket is on the ground. The background shows a grassy field with trees and a building in the distance.

Photo No. 3	Date: 9-6-16	Time: 1622
Direction: Northeast		
Description: Deconning of the sampling shovels after collecting a sample.		



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CONTRACT NUMBER: NA

RESPONSE GUIDANCE DOCUMENT: OU6 Confirmation Surface Soil Sampling QAPP Rev 1

REPORT AUTHOR:	K. Beaudoin (CDM Smith)	DATE: 8/31/2016
PROPERTY ADDRESS:	BNSF Libby Railyard (OU6)	Libby, MT 59923
GEO UNIT:	7449	WORK PLAN REVISION: NA
PROPERTY ID:	AD-000739	BUILDING ID: NA
WEATHER:	60s Partly Sunny Smokey	
PURPOSE OF REPORT:	OU6 Soil Sampling Oversight of Kennedy Jenks Consultants (KJC)	

COMMENTS PERTAINING TO CONSTRUCTION ACTIVITIES

NOTE TIMES WITH EACH COMMENT

(RESULTS OF QA INSPECTIONS | TESTS | DEFICIENCIES OBSERVED | ACTIONS TAKEN | CORRECTIVE ACTIONS TAKEN BY THE CONTRACTOR | DISAGREEMENTS WITH CONTRACTOR | VERBAL INSTRUCTIONS TO CONTRACTOR (INCLUDE PERSONNEL) | DIRECTIONS FROM GOVERNMENT PERSONNEL)

0758 K. Beaudoin and J. Ayala (USACE) met KJC at the Fisher River dumpster site. R. Welchoff, D. Kroll, L. Klein, and A. Silverman (all KJC) on site setting up for the day's sampling event. K. Reilly (BNSF) on site for track protection. KJC held a tailgate meeting to discuss the sampling plan and safety. 0840 On site near mile post 1302. KJC will be sampling east towards mile post 1301. The sampling teams continue to wear respirators while conducting the soil sampling. The two 2-person sampling teams are conducting soil sampling on the north and south side of the tracks simultaneously in 1000' sample areas. Each team is collecting 15 aliquots per side within the sample area. The teams are staggered and are collecting samples at approximately 66' intervals. Each team is collecting an aliquot from the edge of the ballast, center of the property and outer edge of the property. K. Beaudoin observed the team on the southern side of the tracks. The team collected aliquots from 0-6" bgs using a shovel. The team conducted visual inspections of the soil at each sample point. A GPS point was being collected at each aliquot. There is a section of rip rap on the southern side of the tracks that cannot be sampled. The team collected aliquots on either side of the rip rap where it was accessible (the creek was close to the edge of the property boundary). 0930 The teams collected their 15 aliquots per side and combined the soil into a single bag. The sampling tools were deconned and PPE was placed into an IDW bag. The teams switched sides of the track and started sampling the next 1000' segment. K. Beaudoin stayed on the south side of the tracks and observed the second sampling team. The team was using a shovel to dig holes from 0-6" bgs. The sampler was collecting soil using their hand in the open holes. The sampler conducted visual inspections of the material at each sample point. The rip rap continued into this sample area and was not being sampled. 1007 Both teams collected their 15 aliquots per side and placed the soil from both sides into a single bag. The team deconned their sampling equipment and disposed of their PPE as IDW. The soil samples will be placed into final sample bags at the end of the day. The bags are labeled per the segment but will be given proper sample ID when they return to their work trucks. The sampling team is collecting as many samples as they can prior to returning to the staging area where the samples will be properly homogenized and bagged for analysis. The sampling team is collecting samples this way to maximize their sampling time while on site. No long delays occurred during this site visit. 1028 Off site.

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K. Beaudoin (CDM Smith)		8/31/2016



Team 1 measuring out aliquots on the south side of the tracks. Note rip rap along the tracks.



Team 1 conducting a visual inspection of the aliquot.



Team 1 measuring out samples along the south side at 66' intervals.



Team 2 collecting an aliquot from the second 1000' segment on the south side of the tracks. Note the visual inspection in the hand of the sampler.



The team deconning sampling equipment after collecting the second sample.